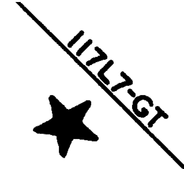




117L7-GT/117M7-GT



RECTIFIER – BEAM POWER AMPLIFIER

Heater ■	Coated Unipotential Cathodes	
Voltage	117	a-c or d-c volts
Current	0.09	amp.
Maximum Overall Length		3-7/16"
Maximum Seated Height		2-7/8"
Maximum Diameter		1-5/16"
Bulb		T-9
Base		Intermediate Shell Octal 8-Pin
Pin 1 - Rectifier Cathode		Pin 5 - Amplifier Screen
Pin 2 - Heater		Pin 6 - Rectifier Plate
Pin 3 - Amplifier Plate		Pin 7 - Heater
Pin 4 - Amplifier Grid		Pin 8 - Amplifier Cathode
Mounting Position		Any

BOTTOM VIEW (8AO)

RECTIFIER UNIT (Half-Wave)

Peak Inverse Voltage	350 max.	volts
Peak Plate Current	450 max.	volts
D-C Heater to Cathode Potential	175 max.	volts
With Condenser-Input Filter:		
A-C Plate Voltage (RMS)	117 max.	volts
Total Effective Plate Supply Impedance	15 min.	ohms
D-C Output Current	75 max.	ma.

AMPLIFIER UNIT

Plate Voltage	117 max.	volts
Screen Voltage	117 max.	volts
Plate Dissipation	6.0 max.	watts
Screen Dissipation	1.0 max.	watt
Typical Operation and Characteristics - Class A_1 Amplifier:		
Plate	105	volts
Screen	105	volts
Grid	-5.2	volts
Peak A-F Grid Voltage	5.2	volts
Zero-Sig. Plate Cur.	43	ma.
Max.-Sig. Plate Cur.	43	ma.
Zero-Sig. Screen Cur.	4	ma.
Max.-Sig. Screen Cur.	5.5	ma.
Plate Resistance	17000 approx.	ohms
Transconductance	5300	µmhos
Load Resistance	4000	ohms
Total Harmonic Distortion	5	%
Max.-Sig. Power Output	0.85	watt

■ It is recommended that the potential difference between heater and cathode of the amplifier unit be kept as low as possible by connecting pin #2 to the side of the line opposite that to which pins #6 & #7 are connected.

May 1, 1941 — TENTATIVE DATA